

iPad Air for Students

Dimensions

- Height: 9.4 inches (240 mm)
- Width: 6.6 inches (169.5 mm)
- Depth: 0.29 inch (7.5 mm)
- Weight: 1 pounds (478 g)

Communications

- Wi-Fi (802.11a/b/g/n); dual channel (2.4GHz and 5GHz) and MIMO
- Bluetooth 4.0 wireless technology

Connectors and Input/Output

- Dual Microphones
- 3.5-mm stereo headphone minijack
- Lightning connector
- Built-in speakers

Processor

- A7 chip with 64-bit architecture and M7 motion coprocessor

Battery and Power

- Built-in 32.4-watt-hour rechargeable lithium-polymer battery
- Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music
- Charging via power adapter or USB to computer system

Display

Retina display

- 9.7-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
- 2048-by-1536 resolution at 264 pixels per inch (ppi)
- Fingerprint-resistant oleophobic coating

Audio

- Frequency response: 20Hz to 20,000Hz
- Audio formats supported: AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320 Kbps), MP3 VBR, Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV
- User-configurable maximum volume limit

Sensors

- Three-axis gyro
- Accelerometer
- Ambient light sensor

Storage

- 32 GB solid state storage

Graphics and video support

FaceTime HD Camera

- 1.2MP photos
- 720p HD video
- FaceTime video calling over Wi-Fi
- Face detection
- Backside illumination
- Tap to control exposure for video or still images
- Photo and video geotagging

iSight Camera

- 5MP photos
- Autofocus
- Face detection
- Backside illumination
- Five-element lens
- Hybrid IR filter
- *f*/2.4 aperture
- Tap to focus video or still images
- Tap to control exposure for video or still images
- Photo and video geotagging
- HDR Photos

Video Recording

- 1080p HD video recording
- Video stabilization
- Face detection
- Tap to focus while recording
- Backside illumination
- 3x Video Zoom

TV/Video output options

- AirPlay mirroring and video out to Apple TV (2nd and 3rd generation)
- Video mirroring and video out support: Up to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)
- Video formats supported: H.264 video up to 1080p, 60 frames per second, High Profile level 4.2 with AAC-LC audio up to 160 Kbps, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; MPEG-4 video up to 2.5 Mbps, 640 by 480 pixels, 30 frames per second, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; Motion JPEG (M-JPEG) up to 35 Mbps, 1280 by 720 pixels, 30 frames per second, audio in ulaw, PCM stereo audio in .avi file format

iPad mini with Retina display for Teachers

Dimensions

- Height: 7.87 inches (200 mm)
- Width: 5.3 inches (134.7 mm)
- Depth: 0.29 inch (7.5 mm)
- Weight: 0.73 pound (331 g)

Communications

- Wi-Fi (802.11a/b/g/n); dual channel (2.4GHz and 5GHz) and MIMO
- Bluetooth 4.0 technology

Connectors and Input/Output

- Dual microphones
- 3.5-mm stereo headphone minijack
- Built-in speakers
- Lightning connector

Processor

- A7 chip with 64-bit architecture and M7 motion coprocessor

Battery and power

- Built-in 23.8-watt-hour rechargeable lithium-polymer battery
- Up to 10 hours of surfing the web on Wi-Fi, watching video, or listening to music
- Charging via power adapter or USB to computer system

Display

- Retina display
- 7.9-inch (diagonal) LED-backlit Multi-Touch display with IPS technology
- 2048-by-1536 resolution at 326 pixels per inch (ppi)
- Fingerprint-resistant oleophobic coating

Audio

- Frequency response: 20Hz to 20,000Hz
- Audio formats supported: AAC (8 to 320 Kbps), Protected AAC (from iTunes Store), HE-AAC, MP3 (8 to 320 Kbps), MP3 VBR, Audible (formats 2, 3, 4, Audible Enhanced Audio, AAX, and AAX+), Apple Lossless, AIFF, and WAV
- User-configurable maximum volume limit

Sensors

- Three-axis gyro
- Accelerometer
- Ambient light sensor

Storage

- 32 GB solid state storage

Graphics and video support

FaceTime HD Camera

- 1.2MP photos
- 720p HD video
- FaceTime video calling over Wi-Fi or cellular4
- Face detection
- Backside illumination
- Tap to control exposure for video or still images
- Photo and video geotagging

iSight Camera

- 5MP photos
- Autofocus
- Face detection
- Backside illumination
- Five-element lens
- Hybrid IR filter
- $f/2.4$ aperture
- Tap to focus video or still images
- Tap to control exposure for video or still images
- Photo and video geotagging
- HDR Photos

Video Recording

- 1080p HD video recording
- Video stabilization
- Face detection
- Tap to focus while recording
- Backside illumination
- 3x video zoom

TV/Video output options

- AirPlay mirroring and video out to Apple TV (2nd and 3rd generation)
- Video mirroring and video out support: Up to 1080p through Lightning Digital AV Adapter and Lightning to VGA Adapter (adapters sold separately)
- Video formats supported: H.264 video up to 1080p, 60 frames per second, High Profile level 4.2 with AAC-LC audio up to 160 Kbps, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; MPEG-4 video up to 2.5 Mbps, 640 by 480 pixels, 30 frames per second, Simple Profile with AAC-LC audio up to 160 Kbps per channel, 48kHz, stereo audio in .m4v, .mp4, and .mov file formats; Motion JPEG (M-JPEG) up to 35 Mbps, 1280 by 720 pixels, 30 frames per second, audio in ulaw, PCM stereo audio in .avi file form

MacBook Air 13” for Teachers

Dimensions

- Height: 0.11-0.68 inch (0.3-1.7 cm)
- Width: 12.8 inches (32.5 cm)
- Depth: 8.94 inches (22.7 cm)
- Weight: 2.96 pounds (1.35 kg)

Communications

- 802.11ac Wi-Fi networking; 3 IEEE 802.11a/b/g/n compatible
- Bluetooth 4.0 wireless technology

Environmental Status Report

- BFR-free
- PVC-free
- Highly recyclable aluminum enclosure
- Meets ENERGY STAR 5.2 requirements
- Rated EPEAT Gold

Connections

- Two USB 3 ports (up to 5 Gbps)
- Thunderbolt port (up to 10 Gbps)
- MagSafe 2 power port
- SDXC card slot

Audio

- Stereo speakers
- Dual microphone
- Headphone port
- Support for Apple iPhone headset with remote and microphone

Keyboard and Trackpad

- Full-size backlit keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted “T” arrangement) with ambient light sensor
- Multi-Touch trackpad for precise cursor control; supports inertial scrolling, pinch, rotate, swipe, three-finger swipe, four-finger swipe, tap, double-tap, and drag capabilities

Processor

- 1.3GHz dual-core Intel Core i5 (Turbo Boost up to 2.6GHz) with 3MB shared L3 cache

Memory

- 4GB of 1600MHz DDR3L onboard memory

Storage

- 128 GB solid state storage

Battery and power

- Up to 12 hours wireless web
- Up to 30 days standby time
- Built-in 54-watt-hour lithium-polymer battery
- 45W MagSafe 2 Power Adapter with cable management; MagSafe 2 power port

Electrical and Operating Requirements

- Line voltage: 100-240V AC
- Frequency: 50Hz to 60Hz
- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: -13° to 113° F (-24° to 45° C)
- Relative humidity: 0% to 90% noncondensing
- Maximum operating altitude: tested up to 10,000 feet
- Maximum storage altitude: 15,000 feet
- Maximum shipping altitude: 35,000 feet

Display

- 13.3-inch (diagonal) LED-backlit glossy widescreen display with support for millions of colors
- Supported resolutions: 1440 x 900 (native), 1280 x 800, 1152 x 720, and 1024 x 640 at 16:10 ratio and 1024 x 768 and 800 x 600 at 4:3 ratio.

Graphics and video support

- Intel HD Graphics 5000
- Dual display and video mirroring: Simultaneously supports full native resolution on the built-in display and up to 2560 by 1600 pixels on an external display, both at millions of colors
- Thunderbolt digital video output
- Native Mini DisplayPort output
- DVI output using Mini DisplayPort to DVI Adapter (sold separately)
- VGA output using Mini DisplayPort to VGA Adapter (sold separately)
- Dual-link DVI output using Mini DisplayPort to Dual-Link DVI Adapter (sold separately)
- HDMI audio and video output using third-party Mini DisplayPort to HDMI Adapter (sold separately)

Camera

- 720p FaceTime HD camera